SONY

3-759-251-22(2)

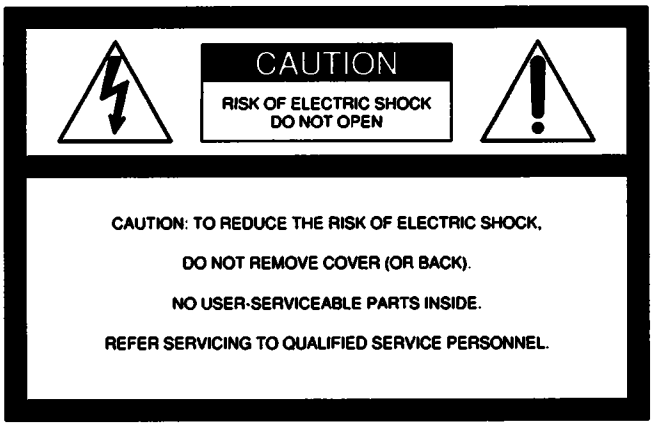
Home Theater Active Speaker System

Operating Instructions

SA-VA1

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SA-VA1 Serial No. _____

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Table of Contents

Introduction
Precautions 3
Overview 4
Identifying the Parts and Controls 6
Left-speaker operation panel/remote commander 6

Getting Started
Unpacking 7
Checking the supplied accessories 7
Inserting the batteries into the remote commander 7
Hooking Up the System 7
Positioning the speaker system 7
Notes on speaker connection 7
Connecting the speakers to video equipment 8

Basic Operations
Enjoying Surround Sound 10
Adjusting the Audio 12

Advanced Operations
Enjoying Surround Sound with an External Center Speaker 14
Four types of DOLBY PRO LOGIC modes 14
Speaker configurations and their respective DOLBY PRO LOGIC modes 14

Additional Information
Specifications 15
Troubleshooting ..... Back cover

Precautions

On safety
- Operate the system only on 120 V AC, 60 Hz.
- Unplug the system from the wall outlet during extended periods of non-use. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- Should any liquid or solid object fall into either speaker, unplug the system and have the system checked by qualified personnel before operating it any further.
- For safety purposes, one blade of the power plug is wider than the other to allow connection to the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

Before turning on the power
Turn the speaker volume down.

To avoid damaging the speakers
- Keep the volume level to a moderate level since excessively high sound output may damage the speakers.
- Do not attempt to open or modify the speaker units or enclosures.

Color interference on nearby TVs
The speakers in this system are magnetically shielded to minimize electrical interference to nearby TV sets. Depending on your TV model, you may experience color interference during operation of the speaker system. If this happens, turn the TV off for 15 to 30 minutes, then turn it on again. If color interference persists, move the speakers further away from the TV set.

On installation
- Do not install the speakers near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Good ventilation is essential to prevent internal heat build-up. Place the speakers at a location with adequate air circulation, and in a way that does not block the rear ventilation holes.

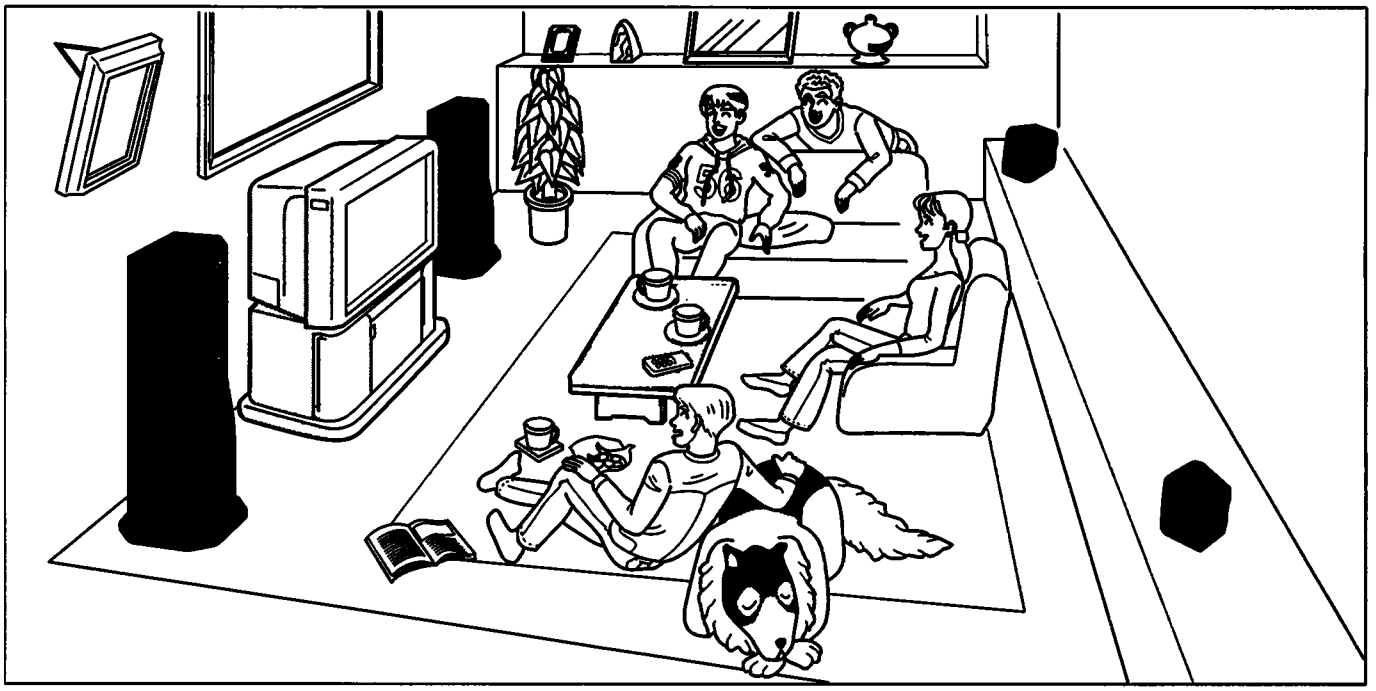
On cleaning the speaker cabinets
Clean the speaker cabinets with a soft cloth lightly moistened with water. Do not use abrasive pads, scouring powder or solvents such as alcohol or benzine.

For detailed safety precautions, see the leaflet entitled "IMPORTANT SAFEGUARDS."

If you have any question or problem concerning your system that is not covered in this manual, please consult your nearest Sony dealer.

Overview

The SA-VA1 is a home-theater active speaker system incorporating a Dolby Pro Logic* decoder and super woofer speakers. This all-in-one, "Tall-boy" style speaker system features a freestanding tower design styled to match your TV. Other design features include easy connection to your video equipment and easy operation with the supplied remote commander, ensuring maximum enjoyment of the true home theater sound this system provides.



Enhanced theater mode speaker system
The front speakers come with built-in center-channel speakers to provide true Dolby Pro Logic surround sound without the need for complicated system settings. This "enhanced theater mode speaker system" provides a clear center-signal sound image for accurate reproduction of centrally positioned sounds such as dialogue. Furthermore, by using the supplied rear speakers, you can obtain full surround sound that gives you the feeling of being in the movie itself. See "Enhanced theater mode speaker system" on the facing page for details.

DBR (Dynamic Bass Roar) super woofer system
To provide truly dynamic bass sound for full movie enjoyment, the SA-VA1 uses SAW (Super Acoustically-loaded Woofer) type super woofers in the front speaker system. See "SAW (Super Acoustically-loaded Woofer)" on the facing page for details.

100-watt multi-drive amplifier system
The SA-VA1 uses five amplifiers to independently drive the super woofers, center channel tweeters, front left and right speakers and rear speakers, achieving excellent sound separation.

Easy connection
The SA-VA1 speaker system is designed for easy connections, including fast, one-touch connectors to connect front speakers and simple push-terminals to connect rear speakers with the front left speaker. You can also connect your TV simply with an audio connecting cord.

Easy operation
The simple, logical key layout of the supplied remote commander and the built-in operation panel on the left front speaker result in much easier operations than conventional AV systems.

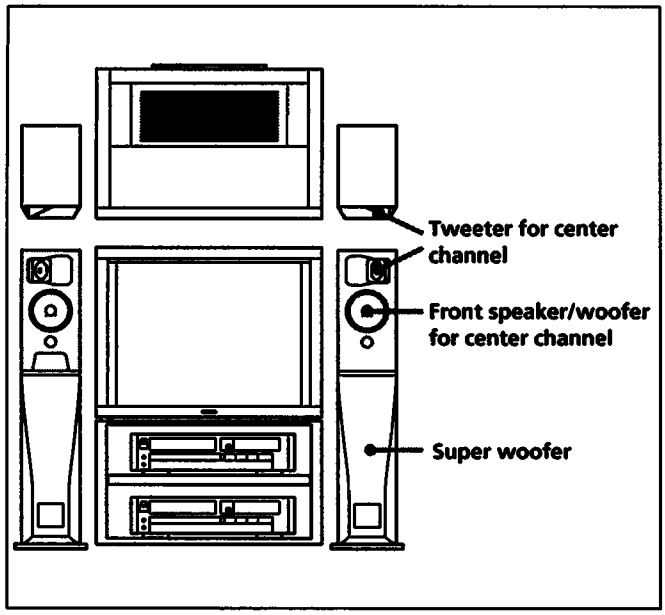
Automatic power mode switching
Press the POWER switch and the SA-VA1 enters READY mode. In this mode, the SA-VA1 turns on automatically whenever an audio signal is input from a program source. If the audio signal is cut off, the SA-VA1's display automatically turns off after about 30 seconds, and after another two and a half minutes the SA-VA1 returns to READY mode.

Three types of surround sound modes — DOLBY, HALL and SIMULATED
Enjoy any of these surround sound modes provided by the SA-VA1 (see page 10 for details).

Four DOLBY PRO LOGIC modes using an external amplified center speaker
Four DOLBY PRO LOGIC modes are available when an amplified center speaker is connected to the left speaker's CENTER OUT jack (see page 14).

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby","Pro Logic" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

Enhanced theater mode speaker system

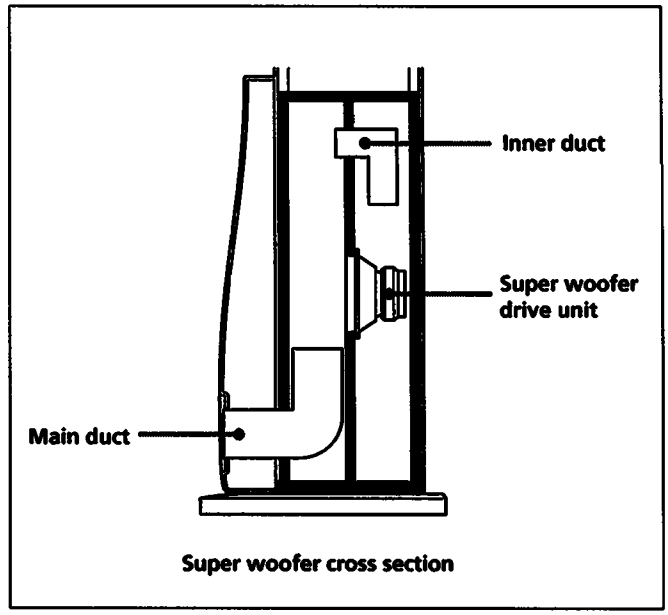


A key point in obtaining maximum surround effect when playing sources with the Dolby Pro Logic surround sound system is the use of a center speaker. The center speaker makes dialogue and other centrally positioned sounds clearer and the sound image more unified. For this reason, true home theater systems use a center speaker equivalent in quality to the front speakers and positioned very close to the screen image.

With its "enhanced theater mode speaker system", the SA-VA1 offers a simple, high-performance home theater system that produces high-quality center channel sound with only two front speakers.

In this system, high-frequency center channel sound is produced by center channel tweeters, situated in the front left and right speakers and oriented inwards at an angle of 30° (see diagram), and low-frequency center channel sound is produced by mixing with front channel signals and reproduction through the front speakers. The result is a high-quality center sound with the same high quality as the front channel sound, and a superior, unified sound image for maximum surround sound effect.

SAW (Super Acoustically-loaded Woofer)



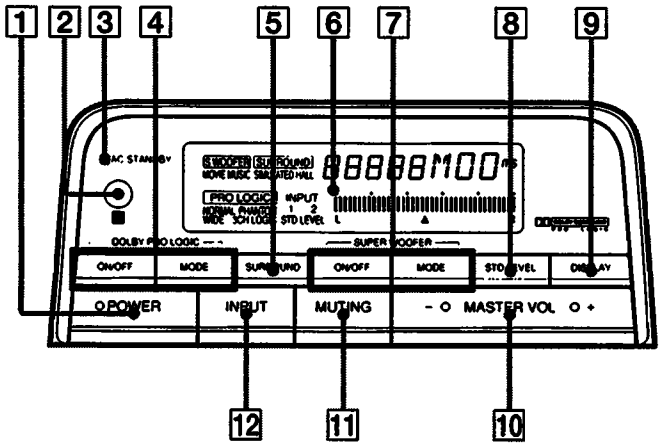
Super woofer cross section

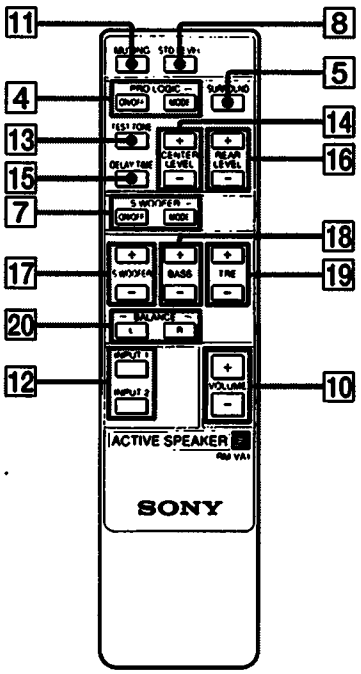
The SA-VA1 incorporates SAW-type super woofers in the front left and right speakers to form a DBR super woofer system. The SAW design features two inner chambers and a centrally-positioned super woofer drive unit. Through precise control of the acoustic characteristics of the front and rear chambers, the system reproduces ultra-low frequencies with high power and clarity.

The SA-VA1 features a SAW-type super woofer in both left and right front speakers, producing powerful sounds for impressive movie effects.

Identifying the Parts and Controls

Left-speaker operation panel/remote commander





For details, refer to the page number(s) indicated in parentheses.

[1] POWER switch

[2] Remote sensor

[3] AC STANDBY indicator
This indicator lights up when the system is connected to an AC outlet and the system is in STANDBY mode.

[4] DOLBY PRO LOGIC ON/OFF button
DOLBY PRO LOGIC MODE button (pages 11 and 14)

[5] SURROUND button (page 11)

[6] Display

[7] SUPER WOOFER ON/OFF button
SUPER WOOFER MODE button (page 11)

[8] STD (standard) LEVEL button (page 13)

[9] DISPLAY button (page 11)

[10] MASTER VOL (VOLUME) +/– button(s) (pages 11 and 12)

[11] MUTING button (page 11)

[12] INPUT (1/2) button(s) (page 10)

[13] TEST TONE button (pages 12 and 13)

[14] CENTER LEVEL +/– buttons (pages 12 and 13)

[15] DELAY TIME button (page 13)

[16] REAR LEVEL +/– buttons (pages 12 and 13)

[17] S.WOOFER +/– buttons (page 12)

[18] BASS +/– buttons (page 12)

[19] TRE (treble) +/– buttons (page 12)

[20] BALANCE L/R buttons (page 13)

Unpacking

Checking the supplied accessories

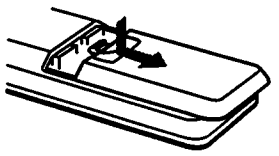
After unpacking, check that the following accessories are present:

- Front L/R speaker connecting cord, 3.5 m (1)
- Rear speaker connecting cord, 10 m (2)
- Audio connecting cord, 1.5 m (1)
- Remote commander RM-VA1 (1)
- Sony batteries SUM-3 (NS) (2)

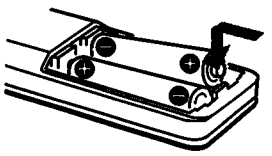
Inserting the batteries into the remote commander

Before operating the remote commander, install the batteries as shown below.

1 Open the cover.



2 Insert two size-AA (R6) batteries with correct polarity orientation.



To avoid damage caused by battery leakage and corrosion

If the commander will not be used for a long time, remove the batteries.

Battery life

About half a year of normal operation can be expected when using Sony SUM-3 (NS), and about a year using Sony AM-3 (NW) alkaline batteries.

As the batteries run down, the remote commander will lose its ability to control the speaker system. When this happens, replace both batteries.

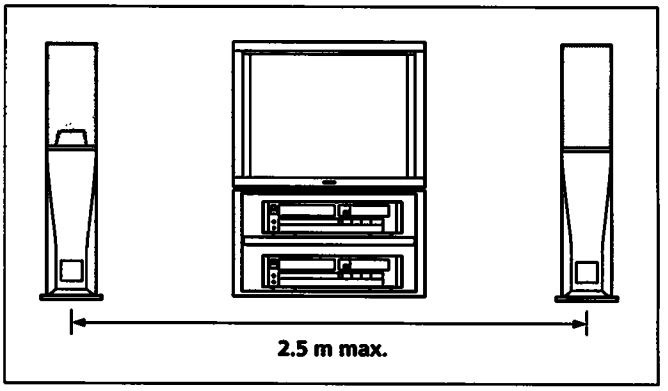
Hooking Up the System

Positioning the speaker system

Location of the front speakers

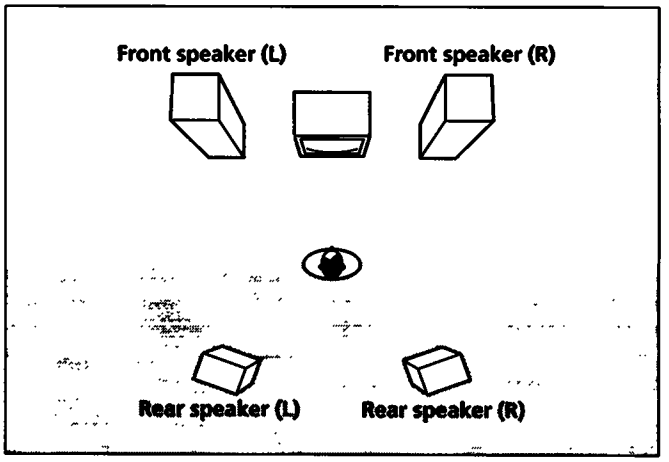
To obtain high sound quality and a proper sound image from the front speakers, place the speaker with the built-in operation panel to the left of the TV and the other to the right so that the center channel tweeters angle inwards toward the center of the room.

Also, to obtain the best central sound image, we recommend placing the left and right speakers within 2.5 meters of each other and equidistant from the TV.



Location of the rear speakers

Place the rear speakers to the rear of your listening position (as indicated by the shadowed area below).



Notes on speaker connection

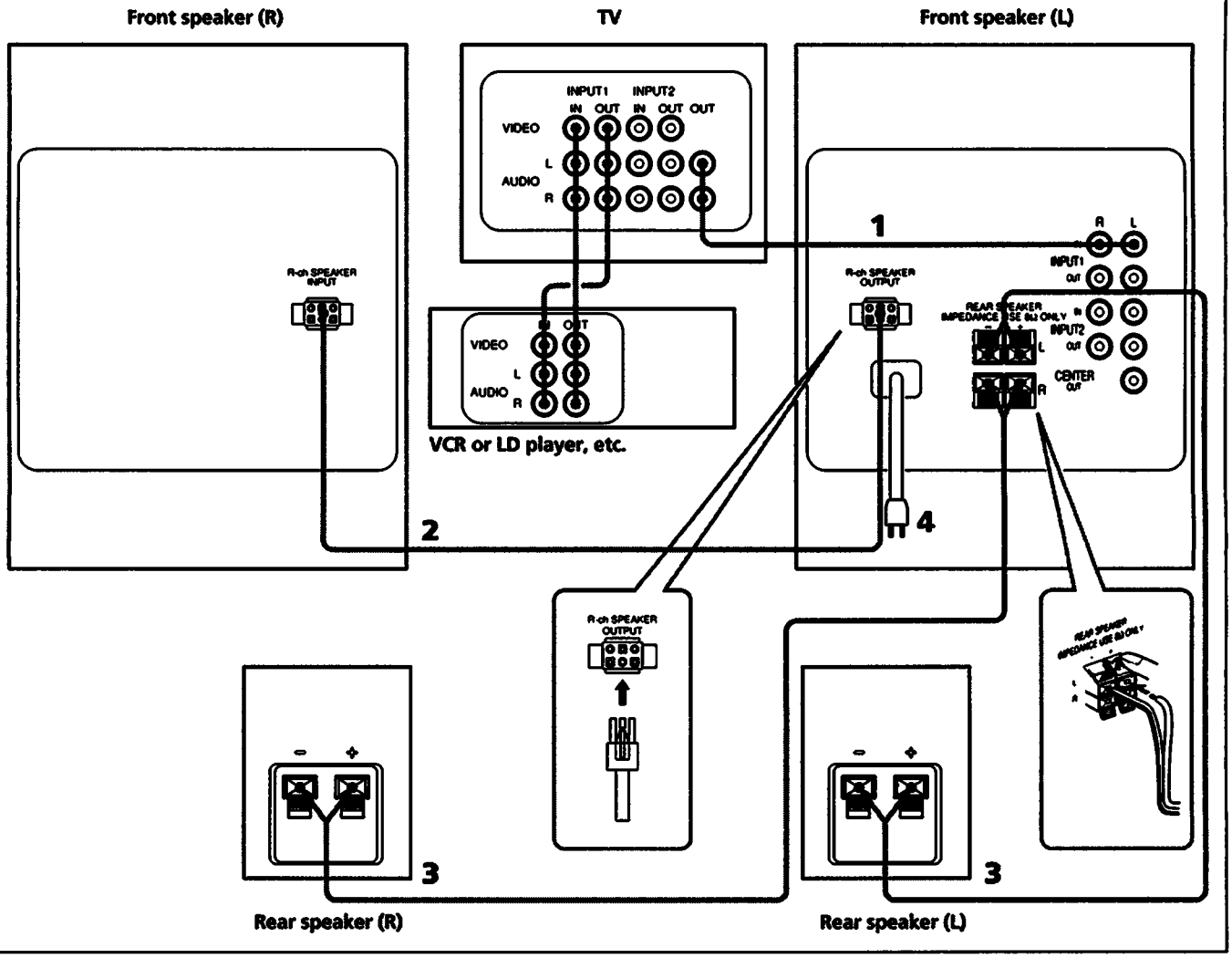
- Use only the supplied speakers for the rear speaker connection.
- Make sure to observe the terminal polarity when making rear speaker connections. That is, connect + to + and – to –. Connecting terminals of opposite polarity will result in sound distortion and weakened bass.
- Since the built-in rear speaker amplifier uses the BTL system, the – speaker cord must be firmly connected.
- Keep the TV volume turned down completely during use of the SA-VA1.

Hooking Up the System

The following two illustrations show the connectors on the rear panel of the various devices and their respective connections.

Connecting the speakers to video equipment

Connection to TV sets with fixed-volume audio output jacks



1 Use the supplied audio connecting cord to connect INPUT 1 or 2 IN jacks on the left speaker to the AUDIO OUT jacks on the TV.

2 Use the supplied front L/R speaker connecting cord to connect the R-ch SPEAKER OUTPUT jack of the left speaker to the R-ch SPEAKER INPUT jack on the right speaker.

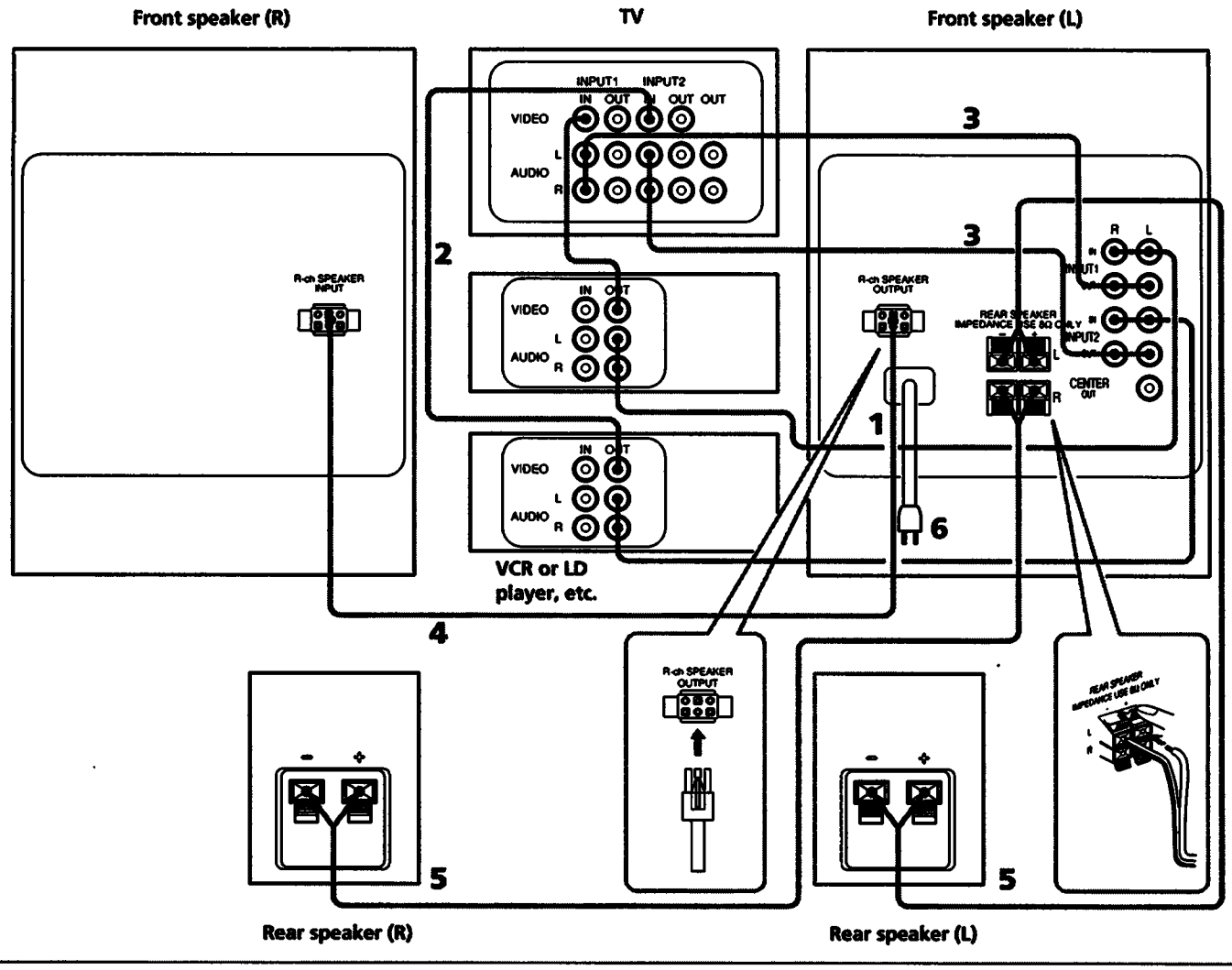
3 Use the supplied rear speaker connecting cords to connect the rear speakers to the REAR SPEAKER terminals on the left speaker.

4 Connect the AC power cord to a wall outlet.

Note

Make sure that the AUDIO OUT jacks on the TV are fixed-volume output jacks. If not, see "Connection to TV sets without fixed-volume audio output jacks" described on the next page.

Connection to TV sets without fixed-volume audio output jacks



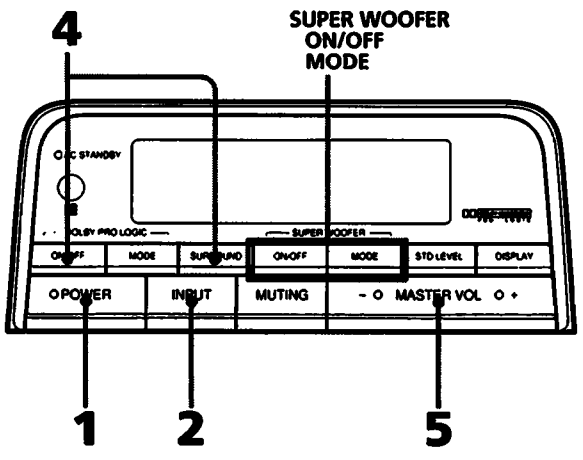
1 Connect the INPUT 1 or 2 IN jacks on the left speaker to the AUDIO OUT jacks on the video equipment.
2 Connect the VIDEO OUT jack on the video equipment to the VIDEO IN jack on the TV.
3 Connect the INPUT 1 or 2 OUT jacks on the left speaker to the AUDIO IN jacks on the TV.
4 Use the supplied front L/R speaker connecting cord to connect the R-ch SPEAKER OUTPUT jack on the left speaker to the R-ch SPEAKER INPUT jack on the right speaker.
5 Use the supplied rear speaker connecting cord to connect the rear speakers to the REAR SPEAKER terminals on the left speaker.
6 Connect the AC power cord to a wall outlet.

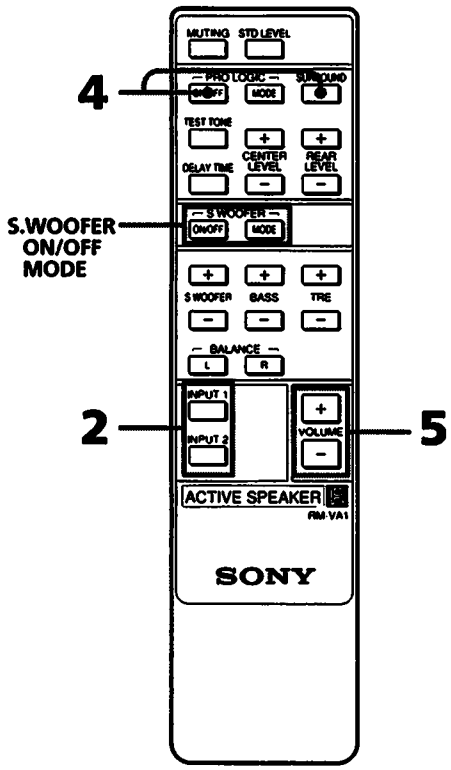
Notes

- Make sure that the connection to either INPUT 1 or 2 jacks corresponds to the VIDEO IN jack being used on the TV set (i.e., VIDEO IN 1 or 2).
- To obtain higher quality sound from LD players or VCRs, we recommend that you use the procedure described in "Connection to TV sets without fixed-volume audio output jacks" to connect the speaker system, even if your TV has fixed-volume audio output jacks.
- Use only one pair of audio output jacks to connect your VCR or LD player, even another pair of audio output jacks is available. Connection of both pairs of jacks at the same time will cause noise or degradation of sound quality.

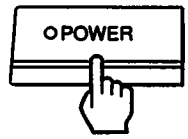
Enjoying Surround Sound

Use the procedure described below to enjoy any of the following surround sound modes:
DOLBY mode: In this mode, the built-in Dolby surround sound system produces superb theater-like sound when playing movies or sound sources bearing the "DOLBY SURROUND" or "DOLBY STEREO" logo.
HALL mode: Select this mode to obtain dynamic surround sound effect during sports programs broadcast in stereo.
SIMULATED mode: Select this mode to achieve simulated stereo sound from a monaural source such as an old movie.



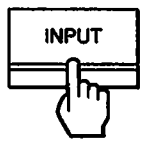


1 Press POWER on the operation panel.
If there is no audio signal at the time you turn on the power, the indicator on the POWER switch lights up red and the speaker system enters READY mode.
If there is an audio signal when you turn on the power or an audio signal is input when the speaker system is in READY mode, the indicator on the POWER switch lights up green and the speaker system begins operating immediately.
If the audio input stops, the display turns off after about 30 seconds, and after another two and a half minutes or so the indicator on the POWER switch turns red and the speaker system returns to READY mode.
Press the POWER switch again to return to STANDBY mode.

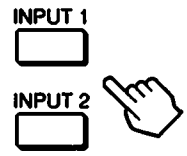


Operation panel

2 Select the program source with INPUT (1/2).
The INPUT 1 or 2 indicator lights up.



Operation panel

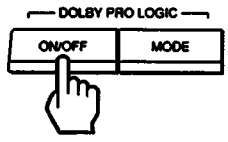


Remote commander

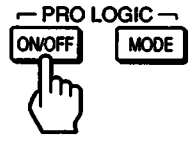
3 Play the program source.
For details on the operation of connected equipment, refer to the operation manual of the respective equipment.

4 Select the surround sound mode.

To select DOLBY mode:
Press DOLBY PRO LOGIC ON/OFF.
"PRO LOGIC" appears on the display.



Operation panel



Remote commander

Note
The DOLBY PRO LOGIC MODE button is operable only when an external center speaker is connected to the CENTER OUT jack (see page 14).

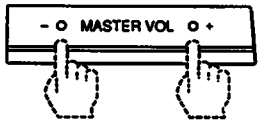
To select HALL or SIMULATED mode:
Press SURROUND.
Each press of the button changes the mode as follows:

HALL → SIMULATED
↑ ↓
surround off

Operation panel

Remote commander

5 Adjust the volume.



Operation panel

Remote commander

To mute the sound
Press the MUTING button.
"MUTE" appears on the display and the sound is muted.
Press the button again or press MASTER VOL + (or VOLUME +) to turn off the muting function.

To change the display
Press the DISPLAY button on the operation panel.
Each press of the button changes the display as follows:

Normal display brightness
↑ ↓
Display off ← Dimmed

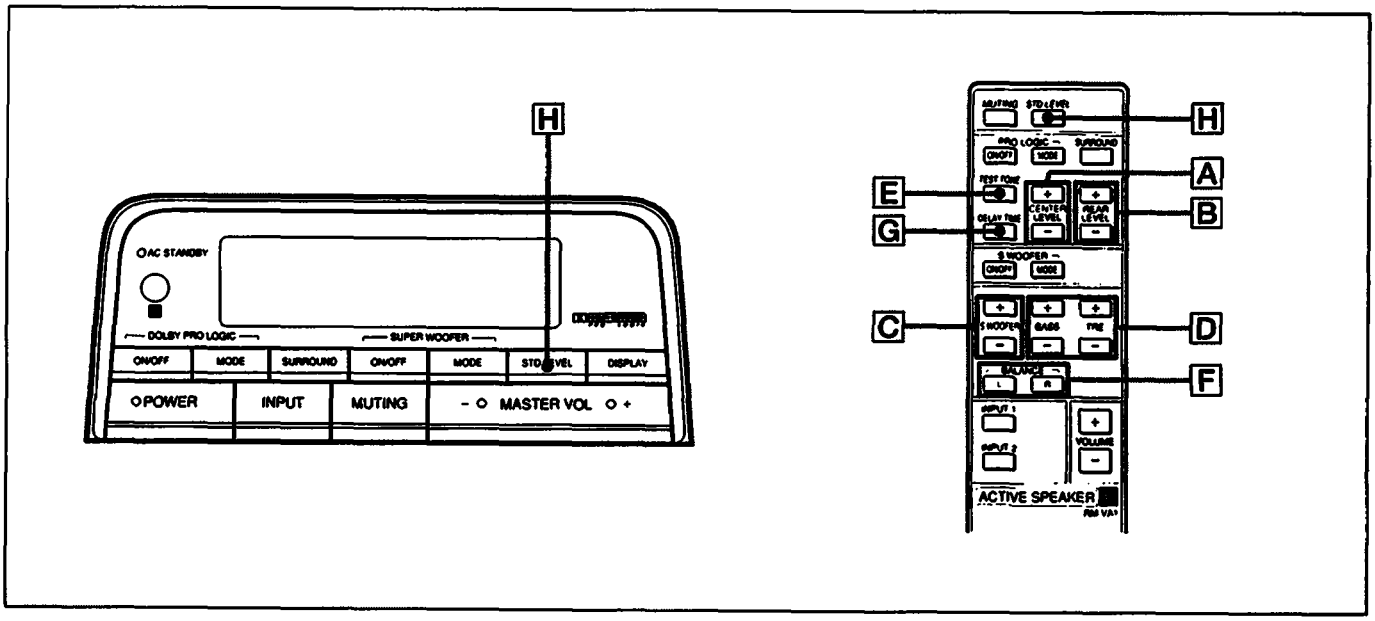
Pressing the function buttons when the display is off momentarily causes the display to light up.

To obtain powerful bass sound
Press the SUPER WOOFER ON/OFF button.
When you press this button, the S.WOOFER indicator lights up and powerful bass sound is output. Two super woofer modes are provided for either movies or music. To select either mode, press SUPER WOOFER MODE button to select either MOVIE or MUSIC.

Notes
- Some commercially available software may have Dolby surround sound tracks even though it does not carry the "DOLBY SURROUND" mark on the package.
- Software with the "DOLBY SURROUND" mark may have weak rear-channel sound output if there is a lack of rear sound information.

Adjusting the Audio

Use the audio adjustment functions described below to adjust the volume, balance and delay time of the speaker system.



A CENTER LEVEL +/– buttons

In DOLBY or DOLBY PRO LOGIC modes (see page 14), press CENTER LEVEL + or – to adjust the volume of the center speaker over a range of +10 dB to –10 dB, in 1 dB steps.

Remote commander

B REAR LEVEL +/– buttons

In DOLBY or DOLBY PRO LOGIC modes, press REAR LEVEL+ or – to adjust the volume of the rear speakers over a range of +10 dB to –10 dB, in 1 dB steps.

Remote commander

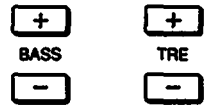
C S.WOOFER +/– buttons

When the super woofer speakers are active (see page 11), press S.WOOFER + or – to adjust the volume of the super woofers over a range of +10 dB to –10 dB, in 2 dB steps.

Remote commander

D BASS +/– and TRE +/– buttons

Press BASS + or TRE + to increase the bass or treble of the front and center speakers, and BASS – or TRE – to reduce the bass or treble of the same speakers over a range of +10 dB to –10 dB, in 2 dB steps.



Remote commander

E TEST TONE button

In DOLBY or DOLBY PRO LOGIC modes, pressing the TEST TONE button causes a test tone signal to be sequentially output from each speaker, allowing you to adjust the sound level of each speaker to achieve a balanced sound image.

1 Press MASTER VOL (VOLUME) +/– to select the sound volume that you commonly use.

Operation panel

Remote commander

2 Press TEST TONE.
A test tone is output automatically from each speaker in the following order:

Front (L) → Center (C)
↑ ↓
Rear ← Front (R)

Remote commander

3 Adjust the sound level of the center and rear speakers and the balance of the sound from the front speakers with CENTER LEVEL +/–, REAR LEVEL +/– and BALANCE L/R to obtain the same sound level from each speaker in respect to your listening position.
The volume of the center and rear speakers appears on the display, and is adjusted in a range of +10 dB to –10 dB, in 1 dB steps.

Remote commander

4 Press TEST TONE to turn off the test tone signal.

F BALANCE L/R buttons

Use the BALANCE L/R buttons to obtain symmetry in the sound image.
Press BALANCE L to move the sound image leftward.
Press BALANCE R to move the sound image rightward.

Remote commander

Note

Since the BALANCE L/R buttons control sound from the front right and left speakers, they have little effect in the DOLBY PRO LOGIC modes (see page 14) for sources with a high proportion of center-channel components.

G DELAY TIME button

The DELAY TIME button allows you to change the spatial characteristics of the sound in DOLBY or DOLBY PRO LOGIC modes.
Press DELAY TIME to choose one of the following delay times:15, 20, 25, and 30 ms. The selected delay time appears on the display.

Remote commander

H STD LEVEL button

Press STD LEVEL to restore the volume level of the center, rear, super woofer speakers and delay time to their factory settings (the STD LEVEL indicator lights up), and again to restore the previous volume level of each speaker and delay time.
If the super woofers are off, pressing the STD LEVEL button causes the super woofer speakers to turn on automatically.

Operation panel

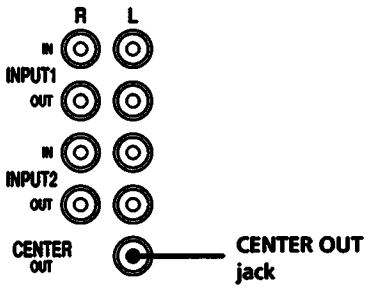
Remote commander

Enjoying Surround Sound with an External Center Speaker

Four types of DOLBY PRO LOGIC modes

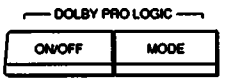
You can specify four different DOLBY PRO LOGIC modes when the CENTER OUT jack on the left speaker is connected to an external center speaker with a built-in amplifier or through an independent amplifier.

Be sure to set the volume of the external center speaker to the minimum before you connect it to the CENTER OUT jack, or before you connect/disconnect the AC power cord of the front left speaker to prevent unexpected noise.



Rear panel of the left front speaker

Press DOLBY PRO LOGIC ON/OFF to activate a connected external center speaker, then DOLBY PRO LOGIC MODE to select the mode corresponding to your speaker configuration.



Operation panel

Remote commander

Each press of the DOLBY PRO LOGIC MODE button changes the mode as follows:

NORMAL → WIDE
↑ ↓
3CH LOGIC ← PHANTOM

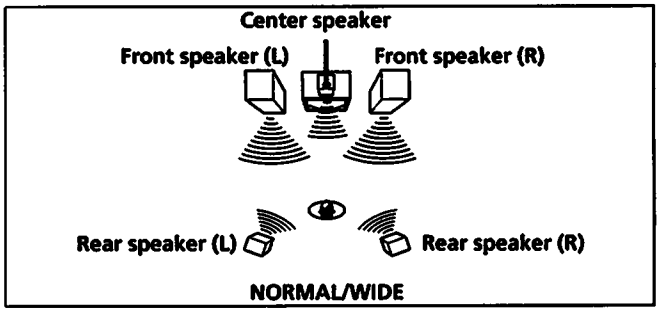
Notes

- The DOLBY PRO LOGIC MODE button is operable only when an external center speaker is connected to the CENTER OUT jack.
- When an external center speaker is not connected, you may still enjoy surround sound through the surround sound modes (see page 10) available through SA-VA1's "enhanced theater mode speaker system".

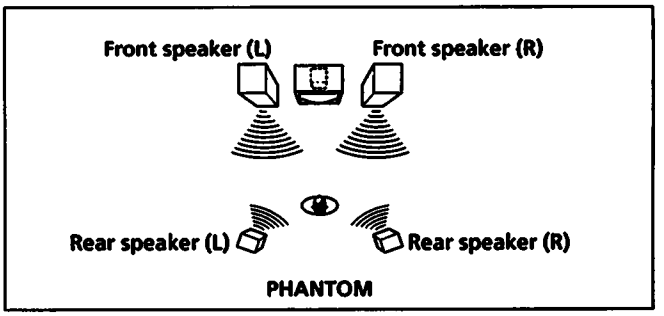
Speaker configurations and their respective DOLBY PRO LOGIC modes

NORMAL mode
Select this mode when using a small center speaker (e.g., your TV's internal speaker). The front speakers output the bass sound of the center channel since the small speaker produces insufficient bass.

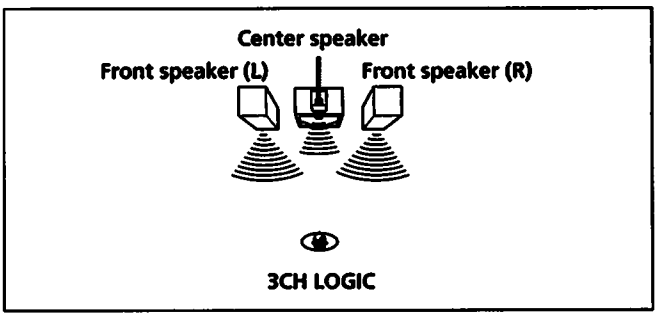
WIDE mode
Select this mode when using a medium to large center speaker.



PHANTOM mode
Select this mode when not using a center speaker. The front speakers output the sound of the center channel.



3CH (channel) LOGIC mode
Select this mode when using only the front and center speakers.
The front speakers output the sound of the rear channel.



Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

For front full range/center woofer speakers: with 4 ohm loads, both channels driven, from 40 Hz -20 kHz; rated 18 watts per channel minimum RMS power, with no more than 0.8 % total harmonic distortion from 250 milliwatts to rated output.

Other specifications

Amplifier section

Continuous RMS power output
- total 100 W
- Center tweeter: 17 W (4 ohms at 10 kHz, 10% THD)
- Front full range/center woofer :22 W + 22 W (4 ohms at 1 kHz, 10% THD)
- Super woofer: 22 W (4 ohms at 40 Hz, 10% THD)
- Rear: 17 W (4 ohms at 1 kHz, 10% THD)

Input sensitivity/impedance
- INPUT 1/2: 450 mV, 50 kΩ

Output
- INPUT 1/2: 450 mV, 1 kΩ
- Center: 650 mV, 2 kΩ
- Rear: Accept only supplied rear speakers SS-SR11
- R-ch: Accept only SA-VA1 R-ch speaker with supplied front L/R speaker connecting cord

Tone control

Front/center	Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz
Super woofer	+10 dB at 30 Hz in MOVIE mode

Speaker section

Type

Front speaker system	Bassreflex type
DBR super woofer	SAW type
Rear speaker	Bassreflex type

Speaker unit

Front speaker system	Center tweeter: 5 cm cone type (×2) Front full range/center woofer: 10 cm cone type (×2) Super woofer: 13 cm cone type (×2)
Rear speaker	8 cm cone type (×2)

General

Power requirement	120 V AC, 60 Hz
Power consumption	60 W
Dimensions	Approx. 180 × 1040 × 305 mm (w/h/d) (7 1/8 × 41 × 12 inches) Approx. 240 × 1040 × 370 mm (w/h/d, including speaker base) (9 1/2 × 41 × 14 5/8 inches)
Mass	Front (L): 16 kg (35 lb 3 oz) Front (R): 13 kg (28 lb 9 oz) Rear: 800 g/pc (1 lb 12 oz)
Supplied accessories	Front L/R speaker connecting cord, 3.5 m (1) Rear speaker connecting cord, 10 m (2) Audio connecting cord, 1.5 m (1) Remote commander RM-VA1 (1) Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

Troubleshooting

Before proceeding through the check list below, first refer back to the connection and operating procedures. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Trouble	Cause	Solution
No sound is heard from any speakers.	The speaker terminals are short-circuited.	Check the speaker connections.
	You pressed the MUTING button.	Press MUTING to cancel the muting function (see page 11).
Sound is heard only from the external center speaker in (DOLBY PRO LOGIC) NORMAL, WIDE or 3CH LOGIC mode.	A monaural program source is being played.	Turn off DOLBY PRO LOGIC ON/OFF to cancel the DOLBY PRO LOGIC modes, or select SIMULATED mode (see page 11).
No sound is heard from the center speaker.	(DOLBY PRO LOGIC) PHANTOM mode is selected or no center speaker is connected.	No sound is output from the external center speaker in PHANTOM mode. Select another mode (see page 14).
	The volume of the center speaker is very low.	Adjust the volume of the center speaker with CENTER LEVEL +/– (see page 12).
	HALL or SIMULATED mode is selected.	Sound from the center speaker is inaudible in these modes.
No sound or very low level sound is heard from the rear speakers.	The DOLBY PRO LOGIC ON/OFF button is turned off.	Turn on DOLBY PRO LOGIC ON/OFF (see pages 11 and 14).
	(DOLBY PRO LOGIC) 3CH LOGIC mode is selected.	Sound is not output from the rear speakers in 3CH LOGIC mode. Select another mode (see page 14).
	The volume of the rear speakers is very low.	Adjust the volume of the rear speakers with REAR LEVEL +/– (see page 12).
	A program source with little surround sound effect is being played.	Check the sound image balance with TEST TONE (see pages 12 and 13).
Severe hum or noise is heard.	The connecting cords are picking up interference from a transformer, motor or fluorescent light.	Move the connecting cords away from the transformer or motor, or at least 3 meters (10 feet) from the fluorescent light.
Remote commander operations cannot be performed.	The batteries are run down.	Replace the batteries.
	The emitter on the remote commander is not pointed at the remote sensor on the operation panel.	Point the remote commander's emitter towards the remote sensor.
	There is an obstruction between the remote commander and the SA-VA1.	Remove the obstruction.

If normal operation does not resume after attempting the prescribed remedy, turn off the power and reinsert the plug into the power outlet.

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